

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	11	bich near le.in.	US-PGPUB; USPAT	OR	ON	2007/06/14 16:31
S2	0	dilip near khandekar.in.	US-PGPUB; USPAT	OR	ON	2007/06/14 16:32
S3	0	sirishkumar near raghuram.in.	US-PGPUB; USPAT	OR	ON	2007/06/14 16:33
S4	22	vmware.as.	US-PGPUB; USPAT	OR	ON	2007/06/14 16:33
S6	1	S4 and (imag\$4 and disk).clm.	US-PGPUB; USPAT	OR	ON	2007/06/14 16:35
S7	4	("5842024" "20030191911" "20040034765" "6804774").pn.	US-PGPUB; USPAT	OR	ON	2007/06/14 16:35
S8	3207	717/168-178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 16:38
S9	3207	717/168-178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 10:23
S10	122	S9 and (disk near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 10:24
S11	4	S10 and (sector near sector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 10:26
S13	48	S10 and (fil\$3 adj system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 10:26

EAST Search History

S14	35	S13 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 15:06
S15	217	(disk near3 image) and (sector near sector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 10:35
S16	85	S15 and (fil\$3 adj system)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 10:35
S17	78	S16 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:57
S18	49	("5355453" "5802366" "5931918" "5388257" "5495607" "5678042" "5222217" "6073222" "6173293" "6205449" "4467421" "4814971" "4853842" "4999766" "5008786" "5193184" "5226141" "5403639" "5404478" "5469576" "5539899" "5581736" "5627967" "5634058" "5701516" "5787493" "5802554" "5806085" "5829053" "5860079" "5893086" "5911044" "5940838" "5946686" "5950199" "5956734" "5960446" "5963963" "5974424" "5987477" "5999976" "6021508" "6023706" "6032216" "6061770" "6061770" "6081879" "6085296" RE36989 "6192471").pn.	US-PGPUB; USPAT	OR	ON	2007/06/15 12:41

EAST Search History

S19	33	("20010005889" "20010047482" "20010056425" "20050010924" "5412772" "5675769" "5706472" "5845295" "5920700" "5930831" "5933647" "5987506" "6067410" "6080207" "6088778" "6108697" "6108759" "6117188" "6151624" "6173291" "6178487" "6178503" "6185575" "6185666" "6253300" "6295538" "6330653" "6377958" "6453383" "6530077" "6535967" "6742020" "6766371").PN.	US-PGPUB; USPAT	OR	ON	2007/06/15 12:41
S20	13	("20030061456" "5265159" "5274807" "5438671" "5991542" "6073220" "6080207" "6108147" "6108697" "6179492" "6253300" "6366987" "6385707").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/15 12:49
S21	17	(US-20030191911-\$).did. or (US-6804774-\$ or US-6658435-\$ or US-6519762-\$ or US-6785787-\$ or US-6179492-\$ or US-5758165-\$ or US-5047868-\$ or US-5165103-\$ or US-5239382-\$ or US-5907672-\$ or US-6108697-\$ or US-6385707-\$ or US-6366987-\$ or US-6108147-\$ or US-6073220-\$ or US-5991542-\$).did.	US-PGPUB; USPAT	OR	ON	2007/06/15 12:56
S22	3	S21 and (simulat\$4 or emulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 13:04
S23	5	S21 and virtual	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 13:04
S24	1	("2003/0191911").URPN.	USPAT	OR	ON	2007/06/15 13:11
S25	42	("4864572" "5001628" "5179378" "5230052" "5298992" "5325532" "5353061" "5363487" "5367698" "5374916" "5394534" "5426645" "5452454" "5493649" "5504842" "5555416" "5604906" "5778384" "5838910").PN. OR ("5991542").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/15 13:31

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S26	5	("5819065" "5896322" "5963971" "5991542" "6185580").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/15 14:06
S27	21	(US-20030191911-\$).did. or (US-6804774-\$ or US-6658435-\$ or US-6519762-\$ or US-6785787-\$ or US-6179492-\$ or US-5758165-\$ or US-5047868-\$ or US-5165103-\$ or US-5239382-\$ or US-5907672-\$ or US-6108697-\$ or US-6385707-\$ or US-6366987-\$ or US-6108147-\$ or US-6073220-\$ or US-5991542-\$ or US-6721846-\$ or US-6598131-\$ or US-6477624-\$ or US-5604906-\$). did.	US-PGPUB; USPAT	OR	ON	2007/06/15 15:02
S28	8	S27 and mount\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:08
S29	3712	mount\$4 near3 server	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:08
S30	84	S29 and (disk near3 imag\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:08
S31	54	S30 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:16
S32	2	"6080207".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:16
S33	2460	simulat\$4 near3 disk	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:57

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S34	694	S33 and (hard adj disk)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:57
S35	64	S34 and (disk near3 imag\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:57
S36	49	S35 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 15:57
S37	296	symantec.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 16:23
S38	12	S37 and (disk near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 16:23
S39	71124	second\$5 near3 ("operating system" or os)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 15:12
S40	136	S39 and (disk adj image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 15:12
S41	117	S40 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 15:13

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S42	8852	second\$5 adj ("operating system" or os)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 15:12
S43	27	S42 and (disk adj image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 15:12
S44	22	S43 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 17:00
S45	3	sparse adj virtual adj disk	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 16:59
S46	15	sparse adj virtual	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 16:59
S47	1819	virtual adj disk	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 17:00
S48	98	S47 and (disk adj image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 17:00
S49	72	S48 and (@pd<"20030411" or @ad<"20030411" or @prad<"20030411" or @rlad<"20030411")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 17:00

EAST Search History

S50	48	vmm and (virtual adj disk)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 17:06
S51	4	("6061692" "6161103" "6418544" "6442529").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/16 17:20
S52	1	(virtual adj disk) and (sparse near3 image)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/16 17:49



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1 [Virtual machines - an idea whose time has returned: application to network, security, and database courses](#)



William I. Bullers, Stephen Burd, Alessandro F. Seazzu

March 2006 **ACM SIGCSE Bulletin , Proceedings of the 37th SIGCSE technical symposium on Computer science education SIGCSE '06**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: [pdf\(78.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Virtual machines provide a secure environment within which students may install, configure, and experiment with operating system, network, and database software. This paper describes experiences teaching three advanced courses in system and network administration, information security and assurance, and database administration using VMware workstation in a shared student laboratory. The paper describes benefits and challenges in course and lab configuration, security, and administration.

Keywords: VMware, database, network, security, virtual machines

2 [Because we have better things to do: automating common support tasks](#)



Keith B. Erikson, Stephen G. Lewis

November 2006 **Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06**

Publisher: ACM Press

Full text available: [pdf\(368.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As technology permeates more aspects of our everyday lives, greater demands are placed on information technology personnel. Lehigh University computing consultants have found their scope of responsibility broadening as campus departments turn to computer-based workflow solutions. In previous years, consultants were tasked with setup, training, and support for PCs and their associated applications. More recently, however, consultants have been asked to lend their expertise to the evaluation, desi ...

Keywords: active directory, automation, ghost, imaging, scripts, utilities, web-based, windows XP, windows server 2003

3 [Guard against data loss with mondo rescue](#)

Hugo Rabson

December 2001 **Linux Journal**, Volume 2001 Issue 92

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(18.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Looking for an easy open-source backup method?

4 Computer forensics laboratory and tools

Guillermo A. Francia, Keion Clinton

June 2005 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(244.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The pervasiveness and the convenience of information technology tend to make most of society deeply dependent on the availability computers and network systems. As our reliance on such systems grows, so does our exposure to its vulnerabilities. Day after day, computers are being attacked and compromised. These attacks are made to steal personal identities, to bring down an entire network segment, to disable the online presence of businesses, or to completely obliterate sensitive information that ...

5 Virtual disk based centralized management for enterprise networks



Yuezhi Zhou, Yaoxue Zhang, Yinglian Xie

September 2006 **Proceedings of the 2006 SIGCOMM workshop on Internet network management INM '06**

Publisher: ACM Press

Full text available:  [pdf\(290.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid advances in hardware, software, and networks have made the management of enterprise network systems an increasingly challenging task. Due to the tight coupling between hardware, software, and data, every one of the hundreds or thousands of PCs that are connected in an enterprise environment has to be administered individually, leading to high Total Cost of Ownership (TCO). We argue that centralized management with distributed, diskless clients, yet centralized repositories of all softw ...

Keywords: enterprise networks, system management, virtual disks

6 Self-organizing systems: Ad hoc extensibility and access control



Úlfar Erlingsson, John MacCormick

July 2006 **ACM SIGOPS Operating Systems Review**, Volume 40 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(200.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

General-purpose, commercial software platforms are increasingly used as system building blocks, even for dependable systems. One reason for their generality, usefulness, and popular adoption is that these software platforms can evolve through *ad hoc extensions*: behavior tweaks outside the scope of supported platform interfaces. Unfortunately, such use of internal platform implementation details is fundamentally incompatible with security and reliability. Even so, platforms that exclude ad ...

7 QEMU: a multihost, multitarget emulator

Daniel Bartholomew

May 2006 **Linux Journal**, Volume 2006 Issue 145

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(18.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Can a free virtual system offer what you need?


8 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy



Landon P. Cox, Christopher D. Murray, Brian D. Noble

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue S1

Publisher: ACM Press

Full text available:  [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common installations to find suitable peers, and peers with high ove ...

9 Migration: Optimizing the migration of virtual computers



Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes. We have chosen to move x86 computer states because x86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, x86 c ...

10 Mobile services: Reincarnating PCs with portable SoulPads



Ramón Cáceres, Casey Carter, Chandra Narayanaswami, Mandayam Raghunath

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available: pdf(199.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The ability to walk up to any computer, personalize it, and use it as one's own has long been a goal of mobile computing research. We present *SoulPad*, a new approach based on carrying an auto-configuring operating system along with a suspended virtual machine on a small portable device. With this approach, the computer boots from the device and resumes the virtual machine, thus giving the user access to his personal environment, including previously running computations. *SoulPad* ha ...

11 Technology to enable learning: Lab management strategies for IT database curriculum



Elissa M. Weeden, Gary R. Scarborough, Dianne P. Bills

October 2003 **Proceedings of the 4th conference on Information technology curriculum CITC4 '03**

Publisher: ACM Press

Full text available: pdf(159.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Academic departments teaching information technology are faced with competing pressures, resources are limited, but student and curricular needs are seemingly "unlimited". Computing labs exemplify this contention. Resources in terms of physical space, computer equipment, and support staff are limited. However the demands on and expectations of academic computing labs are high and ever changing. A typical computing lab must be the following:

Highly functional:

- Support different curricula

Keywords: computing lab management, database curriculum, innovative lab strategies in IT

12 System Administration: Large-Scale Linux Configuration Management

Paul Anderson

April 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(15.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mr. Anderson describes some general principles and techniques for installing and maintaining configurations on a large number of hosts and describes in detail the local configuration system at Edinburgh University.

13 Deploying the Squid Proxy Server on Linux

Ian Spare

March 2001 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(24.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ian gives an example of the installation, configuration and maintenance of this multi-tentacled invertebrate proxy server.


14 Petal: distributed virtual disks



Edward K. Lee, Chandramohan A. Thekkath

September 1996 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII**, Volume 31 , 30 Issue 9 , 5

Publisher: ACM Press

Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The ideal storage system is globally accessible, always available, provides unlimited performance and capacity for a large number of clients, and requires no management. This paper describes the design, implementation, and performance of Petal, a system that attempts to approximate this ideal in practice through a novel combination of features. Petal consists of a collection of network-connected servers that cooperatively manage a pool of physical disks. To a Petal client, this collection appear ...

15 Kernel Korner

Joseph Pranevich

December 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(22.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Wonderful World of Linux 2.2: Mr. Pranevich gives us a look at the changes and improvements coming out in the new kernel

16 Tech tips with Gnull and Voyd

Chester Gnull, Laverta Voyd

February 2007 **Linux Journal**, Volume 2007 Issue 154

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(38.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

i3/4

17 Universal imaging: revolutionizing desktop support



Stephen G. Lewis, Sara K. Rodgers

November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**

Publisher: ACM Press

Full text available:  [pdf\(58.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Lehigh University has recently implemented a new PC deployment model which is built

around the Universal Imaging Utility, a product of Big Bang, LLC. This model has allowed Lehigh to provide a consistent configuration on all desktops while reducing computer setup time significantly. The increased efficiency not only benefits the Lehigh IT staff, but also reduces downtime for end-users. The Universal Imaging Utility allows Lehigh to create a single image that can be deployed to any PC regardless o ...

Keywords: deployment, desktop support, drivers, ghost, imaging, spyware, viruses

18 Mobile services: Slingshot: deploying stateful services in wireless hotspots



Ya-Yunn Su, Jason Flinn

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available: [pdf\(304.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Given a sufficiently good network connection, even a handheld computer can run extremely resource-intensive applications by executing the demanding portions on a remote server. At first glance, the increasingly ubiquitous deployment of wireless hotspots seems to offer the connectivity needed for remote execution. However, we show that the backhaul connection from the hotspot to the Internet can be a prohibitive bottleneck for interactive applications. To eliminate this bottleneck, we propose a n ...

19 Mac OS X panther imaging do's and don'ts



Chris Wieseemann

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**

Publisher: ACM Press

Full text available: [pdf\(193.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In fall of 2003, our department decided to deploy OS X on our 100 or so Apple lab computers. Apple provided a free training session on its OS X Server Network Image Utility, and we jumped at the opportunity. A month of testing left us frustrated with the Network Image Utility and the NetInstall procedure; they simply did not work as advertised.

Apple's OS X Server imaging tools work fine in certain environments, or with post-flight modifications, but we found them to be unusable in ou ...

Keywords: apple software restore, blast image config, carbon copy cloner, casper, imaging, labs, mac OS X, netBoot, netInstall, netRestore, netRestoreHelper. Radmind

20 Product Review: InfoMagic



Caleb Epstein

April 1995 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(14.62 KB\)](#) Additional Information: [full citation](#), [index terms](#)

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